



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 4427

Product Description: Lead Dithizone Reagent

Manufactured By: LaMotte Company

802 Washington Avenue

Chestertown, MD 21620

2. Composition/Information On Ingredients

| Hazard | CAS#/Name | % | PEL | TLV |
|--------|--|--------|-----------------------|-----------------------|
| Yes | 67-66-3 Chloroform | 90-100 | C 50 ppm | 10 ppm |
| Yes | 7681-57-4 Sodium Metabisulfite (scavenger clear liquid) | 3 | N/E | 5 mg/cubic m |
| Yes | 60-10-6 Dithizone | <0.1 | 15 mg/cu m total dust | 10 mg/cu m total dust |

3. Hazards Overview

Primary Route Of Entry: Ingestion Inhalation Skin

Exceptional contact hazard. Nausea, headaches, liver damage, dermatitis. Ingestion or absorption may be fatal.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 2 Flammability: 0 Reactivity: 0

Carcinogenicity: Yes: NTP IARC

Other Health Related Comments:

IARC-20,401,79 Calif. Prop. 65 warning: Chloroform is a cancer hazard. Vapors may harm fetus in pregnant women

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4. First Aid Measures

Eye Contact: Immediately flush with water for 15 minutes. Consult physician.

Skin Contact: Flush thoroughly with water. Wash skin with soap and water.

Ingestion: Drink water. Induce vomiting and call a doctor immediately.

Inhalation: Remove to fresh air. Give artificial respiration if breathing has stopped. If breathing is difficult, give oxygen.

5. Fire Fighting Measures

Flash Point (Method Used): N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: Firefighters wear self-contained breathing apparatus

Unusual Fire & Explosion Hazard: Thermal decomposition may produce highly toxic fumes.

6. Accidental Release Measures

Eliminate ignition sources. Ventilate spill area. Small spills: Absorb on paper towels & allow to evaporate in fume hood.

Large spills: Absorb on spill pads. Place in tightly closed container and hold for disposal as hazardous waste.

7. Handling & Storage

Store in cool, dry, storage area away from incompatible materials.

8. Exposure Controls/Personal Protection

Ventilation

Mechanical

Protection When Handling

Gloves Eye Protection Lab Coat

Work/Hygenic Practices: Use w/adequate ventilation. Avoid inhalation of vapor & contact w/skin. Gloves-Viton or equivalent.

9. Physical & Chemical Properties

Appearance: Dark Green Heavy liquid

Solubility In Water: Negligible

Odor: Aromatic

pH: N/A

Vapor Density: 4 (Air=1)

Vapor Pressure: 167 at 20 deg C

Boiling Point: 61 deg C

Melting Point: N/A

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: Heat, open flame, and hot surfaces

Incompatibility (Materials To Avoid): Strong alkali

Hazardous Decomposition Products: Highly toxic fumes of hydrochloric acid, chlorine, or phosgene.

11. Toxicological Information

oral hmn LDLo: 140 mg/kg for chloroform

Target Organs: Kidneys Liver Central Nervous System

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12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Dispose according to federal, state and local regulations.

14. Transportation Information

Proper Shipping Name:

DOT: CHLOROFORM

IATA: CHLOROFORM

Hazard Class/Div:

DOT: 6.1

IATA: 6.1

UN: 1888

Packing Group: III

15. Regulatory Information

Chemical Inventory Status

| Hazard | Ingredient | USA | Europe | --- Canada --- | | Australia | Japan |
|--------|-----------------------------------|------|--------|----------------|------|-----------|-------|
| | | TSCA | EC | DSL | NDSL | | |
| Yes | 67-66-3 Chloroform | Yes | Yes | Yes | No | Yes | Yes |
| Yes | 7681-57-4 Sodium Metabisulfite | Yes | Yes | Yes | No | Yes | Yes |
| Yes | 60-10-6 Dithizone | Yes | Yes | Yes | No | Yes | No |

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Federal, State, & International Regulations

| Ingredient | --- SARA 302 --- | | ----- SARA 313 ----- | | CERCLA | RCRA 261.33 | TSCA 8(D) |
|-----------------------------------|-------------------------|------------|-----------------------------|--------------------------|---------------|------------------------|----------------------|
| | RQ | TPQ | Listed | Chemical Category | | | |
| 67-66-3 Chloroform | 10 | 10K | Yes | No | 10 | U044 | No |
| 7681-57-4 Sodium Metabisulfite | No | No | No | No | No | No | Yes |
| 60-10-6 Dithizone | No | No | No | No | No | No | No |

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--- SARA 311/312 ---

----- Australia -----

Hazard Categories

**Hazchem
Code**

**Poison
Schedule**

**This MSDS Is
WHMIS Compliant**

Ingredient

Acute

Chronic

Fire

Pressure

Reactivity

67-66-3
Chloroform

Yes

Yes

No

No

No

2Z

S6

7681-57-4
Sodium Metabisulfite

Yes

No

No

No

Yes

None Allocated

None Allocated

60-10-6
Dithizone

No

No

No

No

No

None Allocated

None Allocated

**product 4427
as a whole**

No

Yes

Yes

Yes

Yes

Yes

16. Other Information

Protect from light. Chloroform is a cancer hazard. Vapors may harm the fetus in pregnant women.

Prepared By: IP, Regulatory Affairs Department

Revised: 2005-08-19
